

What is claimed is:

1. A document feeder comprising:

a frame to be placed on a platen of an image reading device,
transporting means attached to the frame with a gap
5 relative to the platen for transporting an original and having a
transporting belt,

a sheet feeding stacker disposed adjacent to the
transporting means for feeding the original to the transporting
means,

10 a discharge stacker disposed adjacent to the transporting
means for storing the original transported from the transporting
means,

a lateral positioning member provided on the frame for
abutting against a flange portion of the platen at a side edge
15 thereof to laterally restrict a position of the transporting
means, and

a vertical positioning member provided on the frame for
abutting against a surface of the platen to vertically restrict
the position of the transporting means.

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2. A document feeder according to claim 1, wherein said
transporting means further includes sucking means for sucking
the original toward the transporting belt, said frame having a
shape covering an entire portion of the platen, said
25 transporting belt having a shape covering a portion of the
platen, said lateral positioning member being disposed at an
outer peripheral edge portion of the frame, said vertical
positioning member being disposed at a peripheral edge portion
of the transporting belt.

3. A document feeder according to claim 1, wherein said lateral positioning member includes portions abutting against the flange portion of the platen on at least two adjacent side edges of the platen.

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4. A document feeder according to claim 1, wherein said lateral positioning member is arranged to be movable vertically while engaging the surface of the platen, and is disposed at a position away from the surface of the platen.

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5. A document feeder according to claim 1, further comprising an original stopper disposed on the frame for stopping the original transported by the transporting belt, said lateral positioning member controlling a position of the original stopper relative to an original setting reference and arranging the original stopper away from the original setting reference.

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6. A document feeder according to claim 5, wherein said lateral positioning member includes projections abutting against the original setting reference.

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7. A document feeder according to claim 5, wherein said sheet feeding stacker and said transporting belt are arranged substantially horizontally along the platen, said discharge stacker being disposed above the sheet feeding stacker.

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8. A document feeder to be placed on a platen of an image reading apparatus for transporting an original to the platen, comprising:

a device frame covering a maximum reading area of the platen,

a transporting case frame attached to the device frame and covering a part of the platen,

5 a light-shielding cover member disposed on the device frame for blocking light through the platen,

transporting means disposed on the transporting case frame for transferring the original to the platen and having a transporting belt,

10 a lateral positioning member disposed on the device frame for abutting against a flange portion of the platen at a side edge thereof to laterally restrict a position of the transporting belt, and

a vertical positioning member disposed on the transporting case frame for abutting against a surface of the platen to vertically restrict the position of the transporting belt.

9. A document feeder according to claim 8, further comprising an exterior casing formed integrally with the device frame, a sheet feeding stacker disposed on the device frame for placing the original, a discharge stacker disposed on the device frame, and a vacuum chamber disposed on the transporting case frame for sucking the original toward the transporting belt.

25 10. A document feeder according to claim 9, wherein said lateral positioning member and vertical positioning member are disposed outside an area of an original having a maximum size such that the transporting belt can transport, said transporting belt and said vertical positioning member being disposed on the vacuum chamber.

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11. A document feeder according to claim 8, wherein said lateral positioning member is arranged to be movable vertically while engaging the surface of the platen, and is disposed at a position away from the surface of the platen.

12. A document feeder according to claim 8, wherein said device frame and transporting case frame are arranged to be movable vertically relative to the platen.

13. A document feeder according to claim 8, further comprising an original stopper disposed on the device frame for stopping the original transported by the transporting belt, said original stopper being arranged to abut against the flange portion of the platen and set by a lateral positioning member and disposed away from the flange portion of the platen.

14. A document feeder according to claim 13, wherein said device frame and transporting case frame are independent members, said transporting case frame being attached to the device case frame such that a position of the transporting case frame can be adjusted freely, said original stopper being attached to the device case frame such that the position of the original stopper can be adjusted freely.

15. An image reading apparatus comprising:

 a platen for placing an original,
 photoelectric converting means disposed adjacent to the platen for electrically reading the original on the platen,

transporting means having a transporting belt and disposed adjacent to the platen for transporting the original and setting the original on the platen,

5 a sheet feeding stacker disposed adjacent to the transporting belt for feeding the original to the transporting belt,

a discharge stacker disposed adjacent to the transporting belt for storing the original transported from the transporting belt,

10 a flange disposed around a periphery of the platen and having a step for abutting against the original to regulate the same,

a frame for supporting the transporting belt,

15 a lateral positioning member disposed on the frame for abutting against the flange to laterally restrict a position of the transporting belt, and

a vertical positioning member disposed on the frame for abutting against a surface of the platen to vertically restrict the position of the transporting belt.

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16. An image reading device according to claim 15, wherein said frame includes a first frame for supporting the sheet feeding stacker and discharge stacker, and a second frame mounted to the first frame for supporting the transporting belt, said first
25 frame being provided with the lateral positioning member and said second frame being provided with the vertical positioning member.

17. An image reading apparatus according to claim 15, further
30 comprising an original stopper disposed on the frame for

stopping the original transported by the transporting belt, an original setting reference disposed on the frame away from the original stopper for placing the original, and control means for controlling the photoelectric converting means to start reading
5 the original from the original setting reference in a first mode and to start reading the original from the original stopper in a second mode.

18. An image reading apparatus according to claim 17, further
10 comprising mode-selecting means electrically connected to the control means for selecting one of the first mode and the second mode, and detecting means electrically connected to the control means for detecting whether the transporting belt is on the platen, said control means setting one of the first mode and the
15 second mode.

19. An image reading apparatus according to claim 17, wherein said control means includes determining means for determining whether a control circuit of the transporting belt is connected
20 to a control circuit of the photoelectric converting means.

20. An image reading apparatus according to claim 17, further comprising a movable side edge guide disposed on the sheet feeding stacker for restricting a side edge of the original,
25 said original stopper being interconnected to the movable side edge guide and being arranged to be movably freely to a plurality of positions along a direction that the photoelectric converting means moves.